Title (en)
    REACTOR FOR THE AUTOTHERMAL REFORMING OF DIESEL

Title (de)
    REAKTOR FÜR AUTOTHERME DIESELREFORMIERUNG

Title (fr)
    RÉACTEUR POUR LE REFORMAGE AUTOTHERME DE GASOIL

Publication
    EP 2576435 A2 20130410 (FR)

Application
    EP 11743259 A 20110623

Priority
    • FR 1002178 A 20100525
    • FR 2011000364 W 20110623

Abstract (en)
    [origin: WO2011148068A2] The invention relates to a method for the autothermal reforming of a hydrocarbon feed in a catalytic reforming reactor, including the steps that consist of: a) mixing the hydrocarbon feed with water vapour, and vaporising the hydrocarbon feed if not already vaporised; b) pre-distributing the vaporised mix of hydrocarbon feed and water across the section of the reforming reactor using a multipoint injector network; c) injecting a gaseous oxidising flow, preferably pure oxygen, into the pre-distributed mixture from step (b) at the injectors from step (b); d) distributing, in the presence of an autothermal reforming catalyst, the mixture obtained in step (c) homogeneously across the section of the reforming reactor; and e) reforming the mixture distributed in step (d) in the catalytic zone of the reforming reactor.

IPC 8 full level
    B01J 3/02 (2006.01); **B01J 8/00** (2006.01); **B01J 8/04** (2006.01); **C01B 3/38** (2006.01)

CPC (source: EP)
    B01J 8/0085 (2013.01); **B01J 8/0453** (2013.01); **B01J 8/0492** (2013.01); **B01J 8/0496** (2013.01); **C01B 3/382** (2013.01);
    B01J 2208/00203 (2013.01); B01J 2208/00212 (2013.01); B01J 2208/00522 (2013.01); C01B 2203/0244 (2013.01); C01B 2203/0883 (2013.01);
    C01B 2203/1011 (2013.01); C01B 2203/1023 (2013.01); C01B 2203/1029 (2013.01); C01B 2203/1276 (2013.01); C01B 2203/1288 (2013.01)

Citation (search report)
    See references of WO 2011148068A2

Designated contracting state (EPC)
    AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
    WO 2011148068 A2 20111201; **WO 2011148068 A3 20120322**; **WO 2011148068 A8 20121011**; AU 2011257038 A1 20130110;
    AU 2011257038 B2 20160121; EP 2576435 A2 20130410; EP 2576435 B1 20190814; ES 2743725 T3 20200220; FR 2960449 A1 20111202;
    FR 2960449 B1 20120803

DOCDB simple family (application)
    FR 2011000364 W 20110623; AU 2011257038 A 20110623; EP 11743259 A 20110623; ES 11743259 T 20110623; FR 1002178 A 20100525